

IN THE CLAIMS:

1. (Currently Amended) A device comprising an isotopically enriched piezoelectric material that is a single crystal quartz.
2. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises a single crystal structure.
3. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched silicon dioxide.
4. (Original) The device of claim 2 wherein said isotopically enriched piezoelectric material comprises isotopically enriched silicon dioxide.
5. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched silicon dioxide having a higher proportion of the Si28 isotope than is present in naturally occurring silicon dioxide.
6. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched silicon dioxide wherein at least 94% of the silicon component of said silicon dioxide is Si28.
7. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched silicon dioxide wherein at least 99% of the silicon component of said silicon dioxide is Si28.
8. (Original) The device of claim 7 wherein said silicon dioxide has a higher proportion of the O16 isotope than is present in naturally occurring silicon dioxide.
9. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched silicon dioxide having a higher proportion of the Si29 isotope than is present in naturally occurring silicon dioxide.
10. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched silicon dioxide having a higher proportion of the Si30 isotope than is present in naturally occurring silicon dioxide.
11. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched silicon dioxide having a higher proportion of the O16 isotope than is present in naturally occurring silicon dioxide.
12. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched zinc oxide.
13. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched titanium dioxide.
14. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched lithium niobate.

15. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched lithium tantalate.
16. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched langasite.
17. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched langatate.
18. (Original) The device of claim 1 wherein said isotopically enriched piezoelectric material comprises isotopically enriched lead-zirconate-titanate.
19. (Original) The device of claim 1 wherein said device comprises a clock.
20. (Original) The device of claim 1 wherein said device comprises an oscillator.
21. (Original) The device of claim 1 wherein said device comprises an acoustic wave filter.
22. (Original) The device of claim 1 wherein said device comprises a resonator.
23. (Original) The device of claim 1 wherein said device comprises a transducer for an ultrasonic surgical instrument.
24. (Original) The device of claim 1 wherein said device comprises a transducer.
25. (Original) The device of claim 1 wherein said device comprises a speaker.
26. (Original) The device of claim 1 wherein said device comprises an ultrasonic speaker.
27. (Original) The device of claim 1 wherein said device comprises a buzzer.
28. (Original) The device of claim 1 wherein said device comprises a radar system.
29. (Original) The device of claim 28 further comprising a low phase noise reference oscillator having a resonator comprising said isotopically enriched material comprises isotopically enriched piezoelectric material.
30. (Original) The device of claim 1 comprising a transducer for a non-linear response ultrasonic beam speaker system.
31. (Original) The device of claim 1 comprising a transducer for an ultrasonic cleaning system.
32. (Cancelled)